

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002440**Date Inspected:** 02-Apr-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** OBG 8BE, OBG 7CW, OBG 8AE, OBG 8AW**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:  
Shanghai

Attended to Visa Extension as scheduled and mandated by China Visa policies and procedures.

**OBG 8BE**

Adhesion testing was performed on the internal undercoated surfaces and the following values are recorded: 1)10.74Mpa, 2)11.44Mpa, 3)6.47Mpa, 4)10.27Mpa, 5)7.17Mpa, 6)5.99Mpa.

**OBG 7CW**

Adhesion testing was performed on the internal undercoated surfaces and the following values are recorded: 1)6.10Mpa, 2)8.41Mpa, 3)7.55Mpa, 4)6.42Mpa, 5)6.29Mpa, 6)5.43Mpa.

**OBG 8AE**

Retesting on internal undercoated surfaces adjacent to previous non-compliant adhesion tests were performed and the following values recorded: 1) 4.66Mpa, 2)8.74Mpa, 3)8.23Mpa.

**OBG 8AW**

Retesting of internal undercoated surfaces adjacent to previous non-compliant adhesion tests were performed and the following values recorded: 1)6.16Mpa, 2)6.60Mpa, 3)6.63Mpa.

**OBG 8BW**

Adhesion testing was performed on the internal undercoated surfaces and the following values recorded: 1)13.27Mpa, 2)10.85Mpa, 3)7.92Mpa, 4)10.50Mpa, 5)11.67Mpa, 6)7.90Mpa, 7)9.34Mpa.

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## SOURCE INSPECTION REPORT

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### Sub-Assemblies

Base metal surfaces of approximately 655 pieces of Catwalk Splice Plates were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting. Plate codes were CATW1/4.

### OBG 9AE

Base metal surfaces of the Bottom plate Stillage/Support areas were abrasive blasted to a non SSPC SP-10 condition. ZPMC was not permitted to apply undercoating to these areas and the work was rejected by ABF QA personnel. Caltrans QA Lumley concurred with ABF decision. ZPMC utilized a mechanical rotary grinder to abrade and remove rusted areas prior to utilizing a small "Pencil" blaster to attempt to achieve SSPC SP-10 condition. Subsequently ZPMC withdrew the Notification for Inspection.

### ABF Satellite Office

Review and sign project documentation and ZPMC backlog of Quality Control (QC) reports.

### OBG 9BW

Transported to Blasting Workshop #1 today.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Peterson,Art	QA Reviewer

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